

## B.Sc. (General) with Diploma in Engineering (90 credit hours) Program Requirements

| Humanities / Arts<br>(12 credit hr)          | Engineering Core<br>(24 credit hr)            | Science Core<br>(39 credit hr)                      |
|--|---|---|
| HIST 1301<br>History of Science & Technology | EGNE 1206<br>Technical Communications         | CSCI 1227<br>Computer Programming & Problem Solving |
| 3 credit hours<br>Humanities                 | EGNE 1210<br>Engineering Design 1: Graphics   | MATH 1210<br>Introductory Calculus I                |
| ●  | EGNE 1203<br>Engineering Mechanics 1: Statics | MATH 1211<br>Introductory Calculus II               |
| ●  | EGNE 2302<br>Engineering Economics            | PHYS 1210<br>University Physics I                   |
|  | EGNE 2303<br>Thermodynamics                   | PHYS 1211<br>University Physics II                  |
|  | EGNE 2307<br>Engineering Design II            | CHEM 1210<br>General Chemistry I                    |
|  | EGNE 2308<br>Electric Circuits I              | CHEM 1213<br>General Chemistry II for Engineering   |
|  | EGNE 2309<br>Probability & Statistics         | MATH 2301<br>Applied Linear Algebra                 |
|  |   | MATH 2311<br>Intermediate Calculus                  |
|  |   | MATH 2303<br>Differential Equations I               |
|  |   | ◆   |
|  |   | ◆   |
|  |   | ◆   |

**NOTES:**  
 Shaded cells = *suggested* schedule Year 1  
 ● Additional Arts Elective – approved by Science or Engineering Advisor (subjects listed on reverse)  
 ◆ Additional Science Elective – approved by Science or Engineering Advisor (up to three credit hours *may* be substituted with Arts Elective)  
 ■ Additional Discipline-Science courses from list on reverse (2000-level or above)

| Discipline - Specific<br>(9 credit hr)  |                                     |  |
|---|-------------------------------------|--|
| Mechanical  | Civil /<br>Environmental            | Electrical   |
| EGNE 2301<br>EGNE Mechanics II: Dynamics                                      | GEOL 1204<br>Geology for Engineers  | EGNE 2330<br>Data Structures & Algorithms for EGNE |
| EGNE 2304<br>Mechanics of Materials   | EGNE 2304<br>Mechanics of Materials | EGNE 2305<br>Digital Logic                         |
| EGNE 2306<br>Fluid Dynamics   | EGNE 2306<br>Fluid Dynamics         | EGNE 2311<br>Electric Circuits II                  |
| <b>Chemical</b>   |                                     | <b>Industrial</b>                                  |
| CHEM 2344<br>Organic Chemistry I  |                                     | EGNE 2325<br>Modelling & Optimization for EGNE     |
| EGNE 2401<br>Process Engineering  |                                     | Any discipline course                              |
| EGNE 2306<br>Fluid Dynamics   |                                     | Any discipline course                              |
| <b>Additional Discipline – Science</b><br>(2000-level or above - 6 credit hr) |                                     |  |
| ■   |                                     |  |
| ■   |                                     |  |

*Every effort is made to ensure that the information summarized here is accurate. Students are reminded that the University Academic Calendar is the official source of Program information.*

## B.Sc. (General) with Diploma in Engineering Program Requirements

| <b>Bachelor of Science (General) with Diploma in Engineering</b> |           |                                     |           |
|--|-----------|-------------------------------------|-----------|
| ■ List of Additional Discipline - Science Courses                |           |                                     |           |
| <b>Mechanical</b>  |           | <b>Civil/Mineral/ Environmental</b> |           |
| PHYS 2302  | PHYS 2410 | ENVS 2100                           | BIOL 2324 |
| PHYS 2303  | PHYS 2510 | ENVS 2300                           | GEOL 2301 |
| CSCI 2308  | CSCI 2327 | ENVS 2310                           | GEOL 2302 |
| <b>Industrial</b>  |           | ENVS 3410                           | GEOL 2325 |
| PSYC 3200  | PSYC 3230 | ENVS 3420                           | GEOL 3312 |
| PSYC 3210  | CSCI 2308 | ENVS 3430                           | GEOL 3313 |
|  |           | ENVS 3440                           | GEOL 3413 |
|  |           | ENVS 3840                           | GEOL 3453 |
| <b>Electrical</b>  |           | <b>Chemical</b>                     |           |
| PHYS 2302  | CSCI 2355 | CHEM 2312                           | CHEM 2313 |
| PHYS 2303  | CSCI 2356 | CHEM 2332                           | CHEM 2345 |
| PHYS 2410  | CSCI 2308 | CHEM 2322                           | CHEM 2333 |
| PHYS 2510  | CSCI 2327 | CHEM 3473                           | CHEM 3424 |

**Arts:** Anthropology, Arabic, Asian Studies, Atlantic Canada Studies, Chinese, Ancient Studies (Classics), Criminology, Economics, Education, English, French, German, Geography (Group A, C, D only), Health Wellness and Sport in Society, Hispanic Studies, History, Intercultural Studies, Global Development Studies (International Development Studies), Irish Studies, Japanese, Linguistics, Philosophy, Political Science, Public Humanities & Heritage, Religion, Sociology, Social Justice and Community Studies, Spanish, Gender Studies & Sexuality.

**Humanities:** Atlantic Canada Studies, Asian Studies, Ancient Studies (Classics), English, History, Intercultural Studies, Irish Studies, Philosophy, Public Humanities & Heritage Religion, and Modern Languages (courses in literature and/or culture)

| <b>Tentative Course Schedule</b>                                   |                            |                             |                                |                                 |
|--|----------------------------|-----------------------------|--------------------------------|---------------------------------|
| <i>** subject to change; official schedule available on Banner</i> |                            |                             |                                |                                 |
| <b>Course</b>  | <b>Semester</b>            |                             |                                |                                 |
|  | <b>Fall<br/>(Sept-Dec)</b> | <b>Winter<br/>(Jan-Apr)</b> | <b>Summer I<br/>(May-June)</b> | <b>Summer II<br/>(July-Aug)</b> |
| EGNE 1206  | **                         |                             |                                |                                 |
| EGNE 1210  | **                         |                             | **                             |                                 |
| EGNE 1203  |                            | **                          | **                             |                                 |
| CSCI 1227  |                            | **                          | **                             |                                 |
| MATH 1210  | **                         | **                          | **                             |                                 |
| MATH 1211  | **                         | **                          | **                             | **                              |
| PHYS 1210  | **                         | **                          |                                |                                 |
| PHYS 1211  |                            | **                          | **                             |                                 |
| CHEM 1210  | **                         | **                          |                                |                                 |
| CHEM 1213  |                            | **                          | **                             |                                 |
| HIST 1301  | **                         | **                          | **                             |                                 |
| EGNE 2302  |                            | **                          |                                | **                              |
| EGNE 2303  | **                         | **                          |                                |                                 |
| EGNE 2304  | **                         |                             | **                             |                                 |
| EGNE 2307  |                            | **                          |                                |                                 |
| EGNE 2308  | **                         | **                          |                                |                                 |
| EGNE 2309  |                            | **                          |                                | **                              |
| MATH 2301  | **                         |                             | **                             |                                 |
| MATH 2311  | **                         |                             | **                             |                                 |
| MATH 2303  |                            | **                          |                                | **                              |
| EGNE 2301  | **                         |                             | **                             |                                 |
| EGNE 2305  | **                         |                             |                                |                                 |
| EGNE 2306  |                            | **                          |                                | **                              |
| EGNE 2311  |                            | **                          |                                |                                 |
| EGNE 2330  | **                         |                             |                                | **                              |
| EGNE 2401  | **                         |                             |                                |                                 |
| EGNE 2325  |                            | **                          |                                | **                              |
| GEOL 1204  | **                         |                             | **                             |                                 |
| CHEM 2344  | **                         |                             | **                             |                                 |